REITZ VENTILATOREN

Serial-No. 328152 **FAN DATA SHEET** Page 1

Order-No. 328152-000

		delivery date	17.12.2015 51/2015
		delay penalty	
		final inspection	
Customer-No.	416064	completion date	15.12.2015
Customer	Claudius Peters	manufacturing	12.11.2015/01.12.2015
Address	DE-21614 Buxtehude	AV	03.11.2015 (1)
Order-No.	02-69348	EK	02.11.2015 (1)
Com.-No.	1/211928	TB 2	02.11.2015
Project	KKS-Nr.: 210 AC03	Konstr.	30.10.2015 (1)
Delivery address	AKF Siemers Nordpack	TB 1	29.10.2015 (1)
	DE-22113 Hamburg	date of order	13.10.2015 1200/19

In charge	Customer	Quotation	Order
	Mr. Peters		Karin Schaper-111

Fan type MXE 080-002230-00 **P/n No.** 8 Position of discharge GL 360 Position of IO at degree

Design / Operating data (2)

Operating mode: pressure operation

Handled gas: air

		Rated data	Calculated data	Operation point(s)			
Characteristic curveno.	2			OP1			
Inlet temperature	ϑ		20	40			°C
Altitude	h						m a.s.l.
Abs. pressure	Pa		10132	10133			daPa
Density, atm.	ρa		1,205	1,128			kg/m³
Density, inlet	ρ1		1,205	1,128			kg/m³
Inlet volume	V1		22,4	16,3			m³/min
Total pressure	Δpt2		800	759			daPa
increase	Δpt1						daPa
Pressure loss,discharge	pd2		41	21			daPa
Pressure loss, inlet	pd1			6			daPa
Static pressure,discharge	pst2		759	745			daPa
Static pressure, inlet	pst1						daPa
Required power-shaft	PW2		4,93	3,83			kW
Required power-shaft	PW1						kW
Recomm.power,motor	PM		7,50	7,50			kW
E-motor speed	nM	2950					rpm
Impeller speed	nL	2915	2915	2915			rpm
Class of accuracy acc. to DIN 24166		2	2	2			

Connections

Inlet	DN	180	
Flange acc. DIN	Standard	DIN 24154 R2	
Connection design		flange mounted	
	Dimension	f= 182	f1=
Discharge	DN or B1/B2	112x 125	
Flange acc. DIN	Standard	DIN 24193 R3	
Connection design		flange mounted	
	Dimension	a1= 490	a2=
	Dimension	d1=	

Identification data

Product catalogue	L-2012
Dimension sheet	
Revised dimension sheet	
General arrangement drawing	UG00000039407-00
Customer drawing	
Parts list - fan	MXE000
Pedestal drawing	KME328152
Impeller drawing	LRE328152
Impeller design	DN1 SFV 1.0

E-motor data (4)

Power	7,50		kW
Speed	2950		rpm
Voltage	400D		V
Frequency	50		Hz
Protect.type/class of ins.	IP55	FB	---
Frame size	132S	IMB3	---
Explosive protection	no		---
Thermistors	3 pcs	IE2	
VIK design	no		
Special design			
Weight / Motor-No.	43,0	UD1510/75345470-001	
Make / Type	Siemens	1LE1001-1CA13-4AB4	
Motor supply	supplied by Reitz		
FC operation	no		
var.speed control range			

Start-up data

Moment of inertia	1,26	kgm2
Fan load torque	16,15	Nm
Rated motor torque (a)	24,00	Nm
Relation b:a	2,2	---
Locked-rotor torque (b)	52,80	Nm
Start-up time	8,6	s
Starting current	105,8	A
Main voltage	400	V

Start-up condition

Start-up type: damper closed

Wiring: direct delta

Noise data (1)

A-weighted total sound power level inlet/discharge	LWAi2/ L WAi1	105 / 96	dB (A)
A-weighted housing sound power level	LWAa	87	dB (A)
A-weighted measuring surface sound pressure level	LPA	73	dB (A)
Correction value for A-weighting	ΔLKA	6	dB (A)
Measuring surface dimension	Ls	15	dB
A-weighted free inlet resp. free discharge sound pressure level at 1 m distance	LPA5/ LPA6	88 / 96	dB (A)

Special design of fan

Design-Temperature	-20°C up 80°C	
Sealing	normal	
Pressure-resistant and shock-proof	no	
Housing insulation	none ID=	
Housing splitting	no	
Housing design type		
Pedestal design type	1.1	

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FAN DATA SHEET

Material	
Spiral housing	1.0038
Scroll	1.0038
Impeller	
· Blades	1.0038
· Main plate	1.0038
· Shroud	1.0038
Pedestal	1.0038
Shaft	%

Stress relief heat treatment impeller / sandblasting: no

Surface and weights w/o equipment			
Housing inside/outside	2,07	2,30	m²
total	4,37		m²
Insulation	1,93		m²
Impeller total	1,93		m²
Pedestal inside/outside	0,77	0,80	m²
total	1,57		m²
Fan outside	7,87		m²
Impeller - weight	25,2		kg
Weight without motor	122,3		kg

Special techn. features (3) and equipment	
shaft seal REW101-100060-25	RWN0401-02
anti-vibration mount(4)	SPZ420-050045, NR Shore 55
mounting plate (4)	MPZ400-000050, galv.steel
foundation bolts	M12x40 acc.drawg. ISO 4018
flex.connection at dis. (1)	K1, -90°C, 0139
transition piece at dis. (1)	112x 125-0139, L: 180
filter inlet RFF113-018018	180, horizontal, S235JRG2
U-tube manometer	
speed monitoring	RTI0121-01

Labels and plates German/English/ Reitz

Customer's type code

Packing without packing

Shipment CPT Buxtehude - including packing

Marking see text

Shipment marks see text

Surface finish	microns	
Impeller - coating		
- derusting	manual derusting	
- primer	RAL 7040 2K Deripox Grund	40
Housing inside - coating		
- derusting	manual derusting	
- primer	RAL 7040 2K Deripox Grund	40
- intermediate coat	-------	
- finish coat	-------	
Housing outside - coating		
- derusting	manual derusting	
- primer	RAL 7040 2K Deripox Grund	40
- intermediate coat	-------	
- finish coat	RAL 5003	40
Colour code		
Pedestal inside - coating		
- derusting	manual derusting	
- primer	RAL 7040 2K Deripox Grund	40
- intermediate coat	-------	
- finish coat	RAL 5003	40
Pedestal outside - coating		
- derusting	manual derusting	
- primer	RAL 7040 2K Deripox Grund	40
- intermediate coat	-------	
- finish coat	RAL 5003	40
Motor coat	RAL 5003	

Bearing I = 8		
Single bearing hous.	N-end	
	D-end	
Anti-friction bearing	N-end	
	D-end	
Taper	N-end	
	D-end	
Fix ring		
Fixed bearing position		
Shaft		

Special design of bearing

V-belt drive		
Pulley - fan		mm
Finish bore		mm
Taper no.		--
Pulley - motor		mm
Finish bore		
Taper no.		--
Design of belts		--
Length of belts		mm
Number of belts		--

Special design of V-belt drive

Coupling		
Make		--
Type		--
Size		--
Finish bore - shaft		mm
Finish bore - motor		

Special design of coupling

Remarks

(1) Sound data: Acc. DIN 45635 part 1 and 38 - free field condition. A-weighted sound pressure level LPA only with connected duct-work at inlet and discharge under free field condition without consideration of motor noise.

(2) Tolerance: Tolerance with respect to class of accuracy in accordance DIN 24166 in range of effiency eta >= 0,9 x etamax. Coordination for class of accuracy (G-KL) see product specification.

(3) Shaft seal: Standard seal is not absolutely tight!

(4) Motor: Recommended E-motor is calculated for start-up with closed damper and D.O.L. starting. Please observe start-up conditions of our catalogue/techn. sheets.

Test remark

	Purchase	Planning engineering	Inspection / Test	Consignment control
Date				
Name				